

Patent Abstracts of Japan

PUBLICATION NUMBER : 60243280
PUBLICATION DATE : 03-12-85

APPLICATION DATE : 14-05-84
APPLICATION NUMBER : 59096251

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INT.CL. : C23C 20/06

TITLE : FORMATION OF TRANSPARENT ELECTRODE

ABSTRACT : PURPOSE: To form a transparent electrode low in resistance by coating a transparent electrode forming liquid contg. an organic metallic comp., an organic binder and solvent on a base plate and calcining it in the oxygen-enriched atmosphere for the first half and in the oxygen-deficient atmosphere for the latter half.

CONSTITUTION: The transparent electrode forming liquid consisting of about 3~ 8wt% unhydrolized organic metallic comp. contg. In and Sn or the like, about 1~25wt% organic binder such as nitrocellulose, solvent such as benzyl alcohol and methyl ethyl ketone and the balance is coated on a base plate with screen printing and a dipping method or the like. Then, the base plate is calcined at the temp. of 400~600°C in the oxygen-enriched atmosphere for the first half and in the oxygen-deficient atmosphere for the latter half. In the first half of the above- mentioned calcination, the atmosphere is air and in the latter half, the atmosphere is preferably regulated to $N_2:O_2=9:1$ by mixing air with equivalent nitrogen. Thereby, the transparent electrode which is low in resistance and has uniform film quality and film thickness is obtained.

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